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Title (English): ROTARY HANDLE OPERATOR WITH REVERSIBLE COVER LATCH
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ROTARY HANDLE OPERATOR WITH REVERSIBLE COVER LATCH

Abstract of the Disclosure.

A handle mechanism for operating a molded case circuit breaker secured to the rear wall of an enclosure is mounted separate from the enclosure cover and extends through a cover opening to be operable from outside the enclosure when the cover is closed. The mechanism is constructed so as to be readily adapted for use with enclosure covers that are hinged at either side of the enclosure.

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The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. In combination, an enclosure having a first side normally closed by an openable front cover, a circuit interrupter within said enclosure and having a handle disposed entirely within said enclosure; a mechanism separate from said cover for manually operating said circuit interrupter from a point outside of said enclosure and in front of said cover; said mechanism including a rear section connected to said handle and a front section operatively engaged with said rear section whereby manual operating forces applied at said front section are transmitted through said rear section to operate said handle; said front section including an operating handle received by an aperture in said cover as the latter moves from its open to its closed position, means rotatably mounting said operating handle for movement about a pivot axis and in a plane generally parallel to said cover in its closed position, a first element biased to cover latching position for maintaining said cover closed, a second element biased to blocking position, cam means operable by said operating handle to move said first element to cover releasing position, said cam means and said second element in said blocking position cooperating to prevent operation of said operating handle to close said circuit interrupter when front cover is open, interlock means operable by said cover upon closing thereof to move said second element from said blocking position to a retracted position wherein said operating handle may be operated to close said circuit interrupter, defeater means for moving said first element to said cover releasing position when said circuit interrupter is closed, an indicia carrying plate behind said operating handle and cooperating therewith to indicate the position of said handle, a support means to which said first element, said second element, said interlock means and said defeater means are mounted and movable with as a unit; said unit being selectively connectable in a first and second position relative to said rear section for use of said

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mechanism when said cover is pivotally mounted along respective first and second opposite edges thereof; said indicia carrying plate remaining in the same position relative to said rear section for both said first and second positions of said unit; said indicia carrying plate having a first hole through which said defeater means is accessible for operation outside of said enclosure when said unit is in its said first position; said indicia carrying plate having a second hole through which said defeater means is accessible for operation outside of said enclosure when said unit is in said second position.

2. The combination as set forth in claim 1 in which said unit is pivoted 180° about said axis in moving from said first to said second position.

3. The combination as set forth in claim 1 in which the rear section includes a motion translating linkage drivingly connected to said handle and said operating handle, and another supporting means which carries said linkage; said another supporting means having first and second notches along opposed edges thereof to provide clearances for said first element when said unit is in its respective first and second positions.

4. The combination as set forth in claim 1 in which the front section includes a raised ring extending through said aperture in said cover and surrounding said operating handle; said ring having first and second locking notches 180° apart at the front thereof to receive a locking bar extendable from said operating handle when the latter is in circuit interrupter OFF position; said ring being moved 180° in the plane thereof when said unit is repositioned whereby said first locking notch receives said locking bar when said unit is in said first position and said second locking notch receives said locking bar when said unit is in said second position.

5. The combination as set forth in claim 4 in which the ring is notched at the rear thereof to provide clearance for operation of the defeater means.

6. The combination as set forth in claim 5 in which the ring has first and second front knockouts 180° apart which when removed provide locking notches to receive the locking bar when the operating handle is in circuit interrupter ON position.

7. The combination as set forth in claim 3 in which said unit is pivoted 180° about said axis in moving from said first to said second position.

8. The combination as set forth in claim 7 in which the front section includes a raised ring extending through said aperture in said cover and surrounding said operating handle; said ring having first and second locking notches 180° apart at the front thereof to receive a locking bar extendable from said operating handle when the latter is in circuit interrupter OFF position; said ring being moved 180° in the plane thereof when said unit is repositioned whereby said first locking notch receives said locking bar when said unit is in said first position and said second locking notch receives said locking bar when said unit is in said second position; said ring being notched at the rear thereof to provide clearance for operation of the defeater means.

9. The combination of claim 2 in which the mechanism includes a gasket mounted to the support means on its front surface; said gasket means being positioned to be engaged and thereby compressed by portions of said cover bounding the aperture therein when said cover is closed.

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10. The combination as set forth in claim 1 in which the means rotatably mounting the operating handle is a bearing member having said cam means mounted thereto; said bearing member including a formation drivingly connected to another bearing member of said rear section; said rear section also including a linkage in driving engagement with said another bearing member and said handle.



FIG. 1.

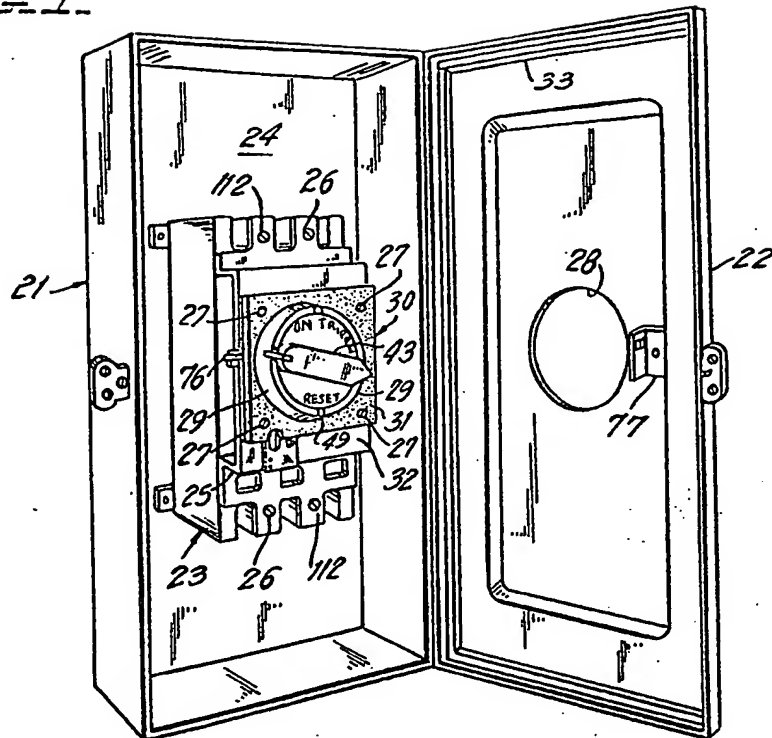
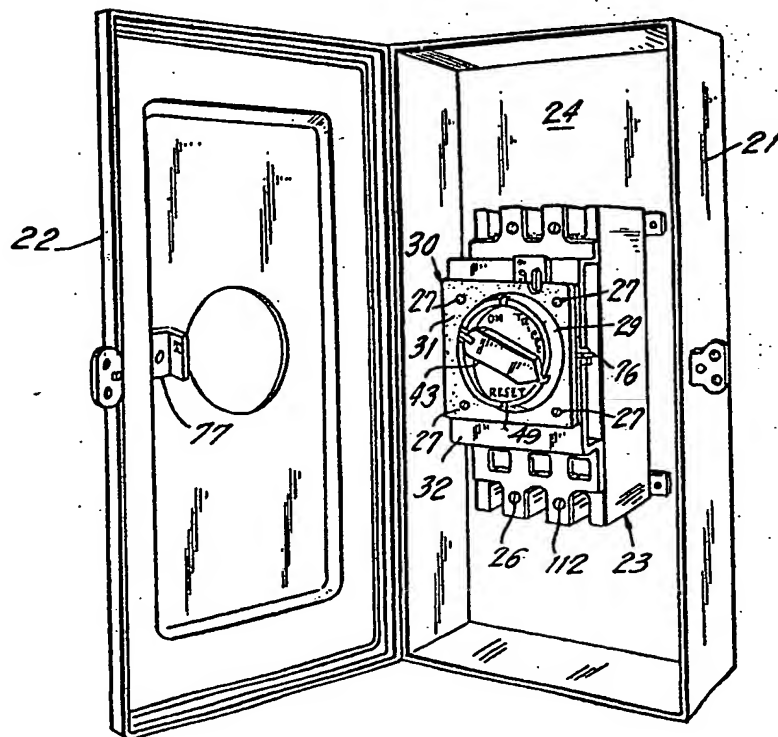
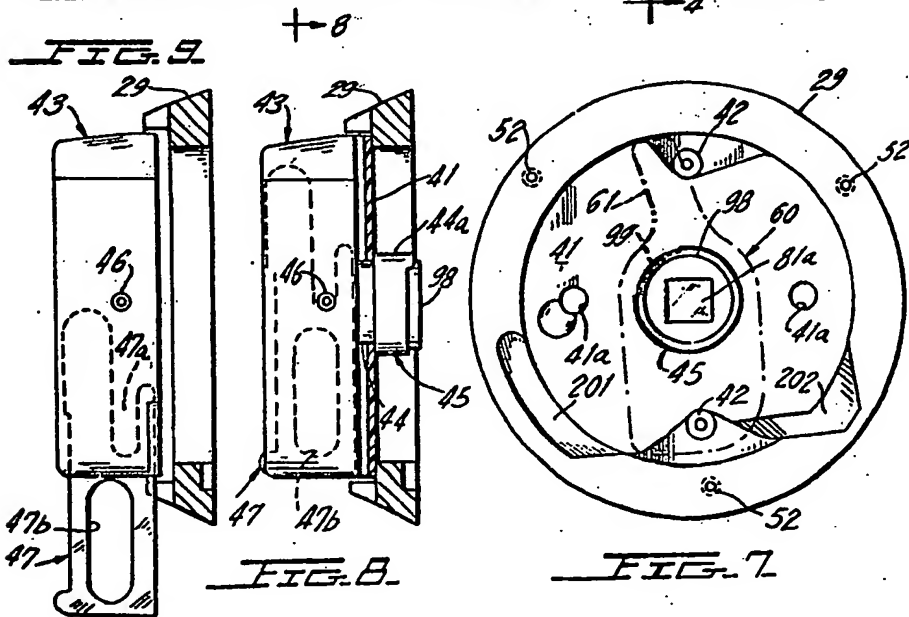
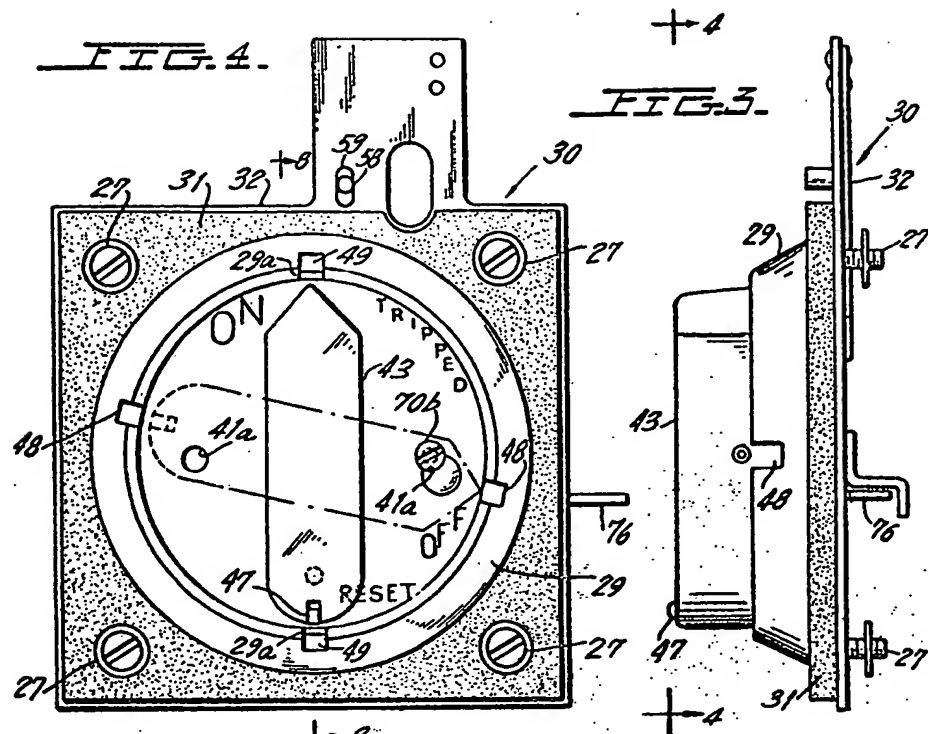


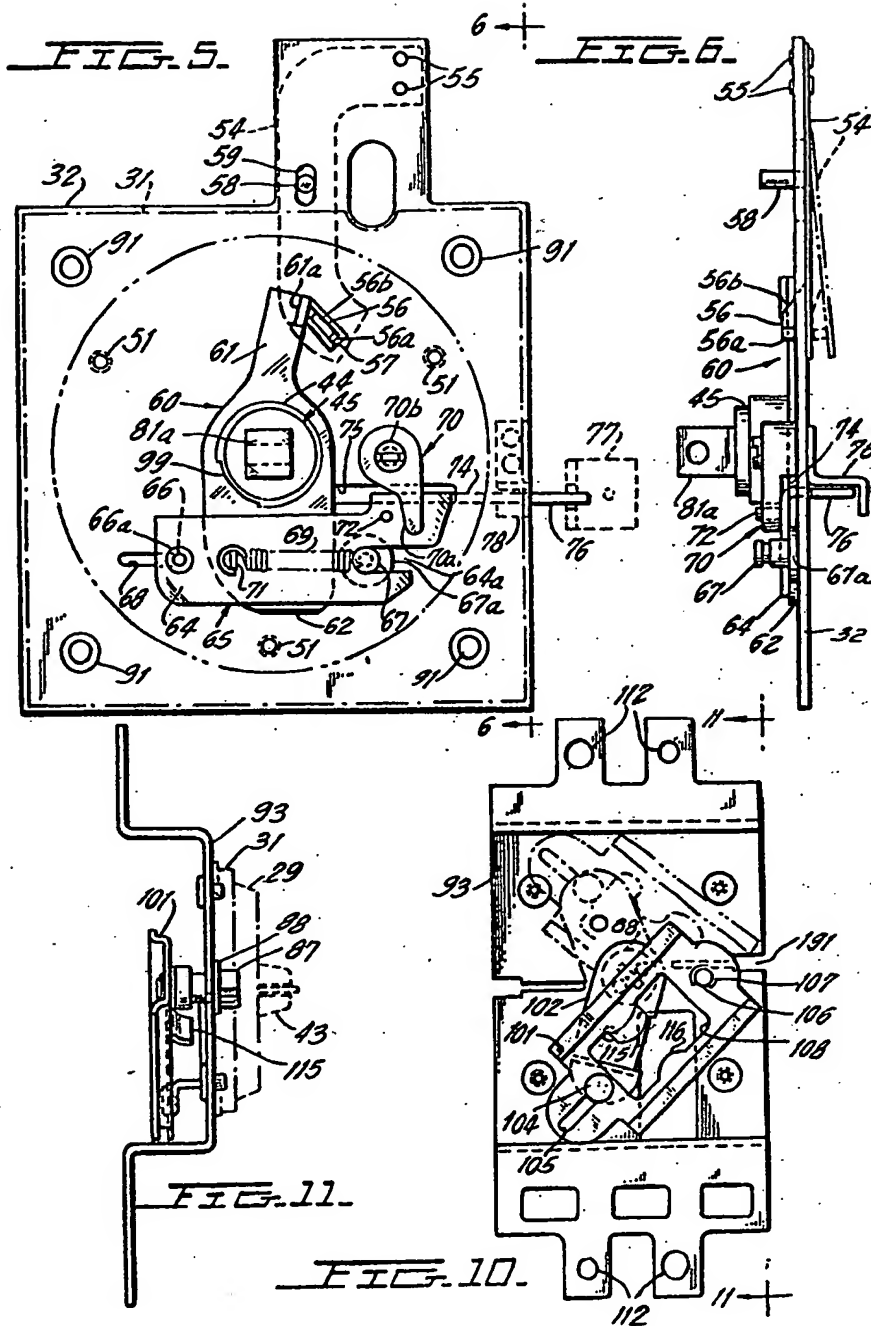
FIG. 2.



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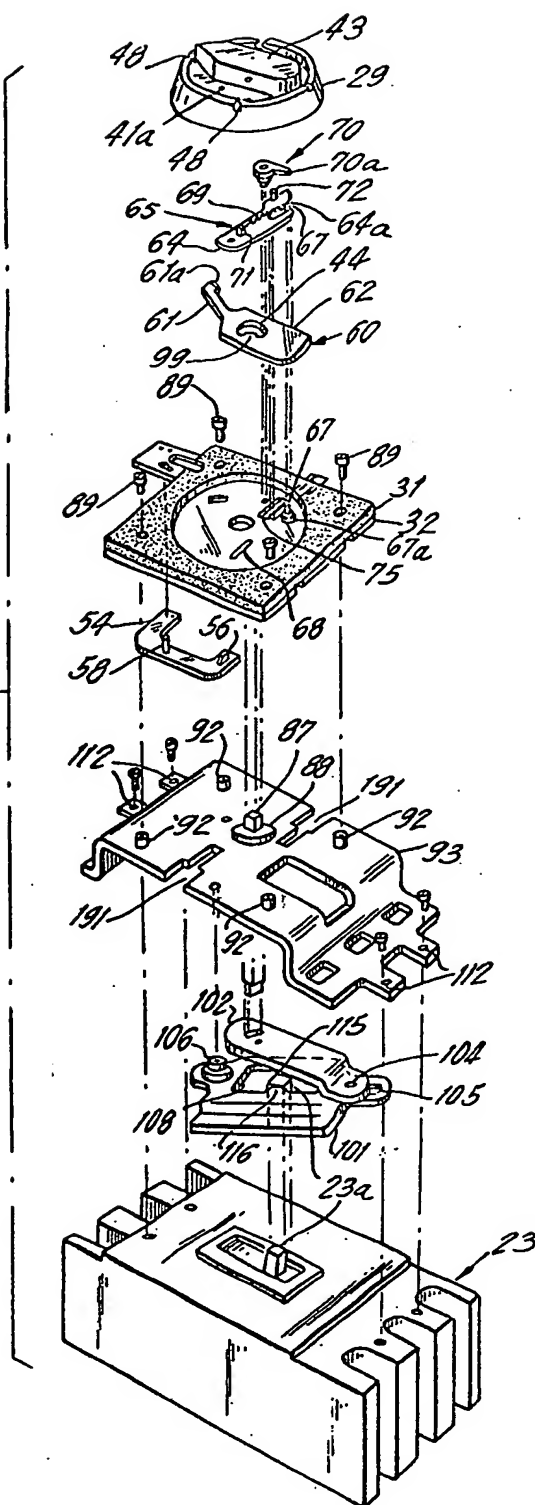


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FIG. 12.



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